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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/576,706	01/08/2007	Saskia Lehmann	OST-061103	2066	
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1327 W. WASHINGTON BLVD.			SELLERS, ROBERT E		
SUITE 5G/H CHICAGO, IL	.60607		ART UNIT PAPER NUM		
			1796		
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			06/01/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/576,706	LEHMANN ET AL.		
Examiner	Art Unit		
ROBERT SELLERS	1796		

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	ROBERT SELLERS	1796	
The MAILING DATE of this communication appr Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 3 CFR 1.13 after SIX (8) MONTHS from the mailing date of this communication. If NO print off or reply is specified above, the maximum statutory period we have a subject to the provision of	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	I. sely filed the mailing date of this of (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>08 Ja</u> This action is FINAL . 2b) ☐ This Since this application is in condition for allowan closed in accordance with the practice under E.	action is non-final. ce except for formal matters, pro		e merits is
Disposition of Claims			
4) ⊠ Claim(s) <u>1-16</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ☒ Claim(s) <u>1-16</u> are subject to restriction and/or e			
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example.	pted or b) objected to by the E lrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 C	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	have been received. have been received in Applicative documents have been received (PCT Rule 17.2(a)).	on No ed in this National	Stage
Attachment/e)			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da		

3) Information Displaceure Statement(s) (FTO/SE/08) Paper No(s)/Mail Date 8 January 2007.

5) Notice of Informal Patent Application
6) Other:

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Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-11, drawn to a glass printing ink or lacquer comprising a bisphenol A epoxy resin, a UV hardening monomer, an amino, hydroxy, epoxy, acid, anhydride or acrylate-functional resin, and a photoinitiator.

Group II, claims 12-14, drawn to a method of using the glass printing ink or lacquer comprising pretreating a glass or superficially vitreous substrate, mixing a coupling agent into the ink or lacquer, and UV hardening it without a subsequent heat treatment (claim 14).

Group III, claims 12, 13 and 15, drawn to a method of using the glass printing ink or lacquer comprising printing a glass or vitreous substrate with the ink or lacquer without a coupling agent and UV hardening it.

Group IV, claims 12, 13 and 16, drawn to a method of using the glass printing ink or lacquer comprising printing a glass or vitreous substrate with the ink or lacquer without a coupling agent, UV hardening and thermally post-treating it.

 The inventions listed as Groups I to IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical feature. Application/Control Number: 10/576,706 Page 3

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The special technical feature is the combination of bisphenol A epoxy resin and an amino, hydroxyl, epoxy, acid, anhydride or acrylate-functional resin.

- 3. European Patent No. 1,086,403 (page 4, paragraph 24) discloses a stereolithographic or coating composition (page 14, lines 13-15) comprising a cationically curable liquid or solid compound including an epoxy resin (page 4, lines 33-34) such as particularly preferably a diglycidyl ether of bisphenol A (page 5, lines 2-3), a photoinitiator, a free radically curable component such as a liquid poly(meth)acrylate (page 8, paragraph 59) within the claimed UV hardening monomer according to page 5, lines 1-15 of the instant specification, and an epoxy-based cationic reactive modifier (page 12, paragraph 82) within the claimed epoxy-functional resin.
- 4. Steinmann et al. Patent No. 5,476,748 (col. 1, line 63 to col. 2, line 14) sets forth a mixture for producing relief images on printing plates (col. 11, lines 25-29) containing A) a liquide epoxy resin such as polyglycidyl ethers of a phenolic hydroxyl groups-containing compound (col. 3, lines 4-8), B) a cationic photoinitiator, C) a liquid diacrylate within the claimed UV hardening monomer, D) a liquid poly(meth)acrylate within the claimed acrylate-functional resin, E) a radical photoinitiator and F) an OH-terminated polyether, polyester or polyurethane within the claimed hydroxy-functional resin.
- The special technical feature does not make a contribution over the prior art, thereby validating a holding of lack of unity.

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6. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- a) The UV hardening monomers such as the 1,6-hexanediol diacrylate of claim 7 used in Example 1 as shown in the table on page 17 of the specification.
- b) The amino, hydroxy, epoxy, acid, anhydride or acrylate-functional resins such as melamine acrylate Nanocryl XP 21/0793 of Example 1.
- c) The photoinitiators such as Darocur 1173/1173C wherein the chemical name and/or structure is revealed.
- d) The ink or lacquer with or without the stabilizer of claim 9 wherein a species is indicated if present.
- e) The ink or lacquer with or without the co-initiator of claim 10 wherein a species is designated if present.
- 7. Applicant is required, in reply to this action, to elect a single species within each of items a), b), c), d) and e) to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added.
 An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration

of claims to additional species which are written in dependent form or otherwise include

all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

are added after the election, applicant must indicate which are readable upon the

elected species. MPEP § 809.02(a).

Claims 1-16 are generic.

8. The species listed above do not relate to a single general inventive concept

under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or

corresponding special technical feature for the reasons espoused with respect to the

holding of lack of unity hereinabove.

The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

9. German Patent No. 2,343,589 designated as a X reference in the International

Search Report filed January 8, 2007 is directed to either a two-part ink composed of an

epoxy resin and polyaminoamide, or a one-part ink of a modified polyester

(Derwent abstract). The claimed bisphenol A epoxy resin and photoinitiator are not

recited.

(571) 272-1093 (Fax No. (571)-273-8300)

Monday to Friday, 9:30 to 6:00

/Robert Sellers/ Primary Examiner Division 1796

rs 5/27/2**00**9